

SoCalGas, June 15th, 2023

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.  
In Response to Data Request, R15-01-008 2023 June Report  
Appendix 7; Rev. 03/30/2023

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange

Use the Population based emission factor if facility is not surveyed. Use Leaker based emission factor if facility is surveyed, and report only the found leaking components.

Underground Storage Facility Leaks and Emissions:

ID	Geographic Location	Source	Number of Sources	12/31/2022		1/1/2022		Emission Factor (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
				Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Repair Date (MM/DD/YY)			
7849457	PLAYA DEL REY	W/V	1	11/16/2021	2/23/2022	54	0.108	5.83	Soap Test / Audio Visual	
7849458	PLAYA DEL REY	W/V	1	11/16/2021	2/23/2022	54	0.108	5.83	Soap Test / Audio Visual	
7858512	ALISO CANYON	W/C	1	1/28/2022	1/28/2022	1	0.029	0.03	Soap Test / Audio Visual	
7858532	ALISO CANYON	W/O	1	1/29/2022	2/3/2022	5	0.098	0.52	Soap Test / Audio Visual	
7901897	ALISO CANYON	W/V	1	3/7/2022	5/25/2022	80	0.108	8.60	Soap Test / Audio Visual	
7906669	ALISO CANYON	W/V	1	3/21/2022	3/21/2022	1	0.108	0.11	Soap Test / Audio Visual	
8155942	HONOR RANCHO	W/V	1	12/25/2022		6	0.108	0.68	Soap Test / Audio Visual	
8157526	HONOR RANCHO	W/PRV	1	12/29/2022	1/3/2023	2	0.098	0.23	Soap Test / Audio Visual	
7847905	GOLETA STATION	W/C	1	1/6/2022	1/6/2022	1	0.029	0.03	>= 10K PPM LDAR	
7849773	GOLETA STATION	W/V	1	1/10/2022	1/10/2022	1	0.108	0.11	>= 10K PPM LDAR	
7849777	GOLETA STATION	W/V	1	1/13/2022	1/13/2022	1	0.108	0.11	>= 10K PPM LDAR	
7849778	GOLETA STATION	W/C	1	1/13/2022	1/13/2022	1	0.029	0.03	>= 10K PPM LDAR	
7849801	GOLETA STATION	W/C	1	1/13/2022	1/14/2022	2	0.029	0.06	>= 10K PPM LDAR	
7852307	GOLETA STATION	W/C	1	1/18/2022	1/18/2022	1	0.029	0.03	>= 10K PPM LDAR	
7852366	ALISO CANYON	W/C	1	1/19/2022	1/19/2022	1	0.029	0.03	>= 10K PPM LDAR	
7852369	ALISO CANYON	W/V	1	1/19/2022	1/19/2022	1	0.108	0.11	>= 10K PPM LDAR	
7855868	ALISO CANYON	W/C	1	1/25/2022	1/25/2022	1	0.029	0.03	>= 10K PPM LDAR	
7856540	ALISO CANYON	W/V	1	1/26/2022	1/26/2022	1	0.108	0.11	>= 10K PPM LDAR	
7858879	MONTESBELLO	W/V	1	2/3/2022	2/3/2022	1	0.108	0.11	>= 10K PPM LDAR	
7858879	ALISO CANYON	W/V	1	2/8/2022	2/8/2022	1	0.108	0.11	>= 10K PPM LDAR	
7875858	ALISO CANYON	W/V	1	2/8/2022	2/8/2022	1	0.108	0.11	>= 10K PPM LDAR	
7875861	ALISO CANYON	W/V	1	2/8/2022	2/8/2022	1	0.108	0.11	>= 10K PPM LDAR	
7875862	ALISO CANYON	W/V	1	2/8/2022	2/8/2022	1	0.108	0.11	>= 10K PPM LDAR	
7876976	ALISO CANYON	W/C	1	2/9/2022	2/9/2022	1	0.029	0.03	>= 10K PPM LDAR	
7877932	PLAYA DEL REY	W/C	1	2/14/2022	2/14/2022	1	0.029	0.03	>= 10K PPM LDAR	
7878132	PLAYA DEL REY	W/C	1	2/14/2022	2/14/2022	1	0.029	0.03	>= 10K PPM LDAR	
7878151	PLAYA DEL REY	W/C	1	2/15/2022	2/15/2022	1	0.029	0.03	>= 10K PPM LDAR	
7878452	GOLETA STATION	W/V	1	2/17/2022	2/17/2022	1	0.108	0.11	>= 10K PPM LDAR	
7903368	HONOR RANCHO	W/C	1	3/7/2022	3/10/2022	4	0.029	0.12	>= 10K PPM LDAR	
7903483	HONOR RANCHO	W/C	1	3/7/2022	3/10/2022	4	0.029	0.12	>= 10K PPM LDAR	
7912936	ALISO CANYON	W/C	1	3/29/2022	3/29/2022	1	0.029	0.03	>= 10K PPM LDAR	
7928949	ALISO CANYON	W/V	1	4/11/2022	4/11/2022	1	0.108	0.11	>= 10K PPM LDAR	
7928952	ALISO CANYON	W/V	1	4/11/2022	4/11/2022	1	0.108	0.11	>= 10K PPM LDAR	
7928960	ALISO CANYON	W/C	1	4/11/2022	4/11/2022	1	0.029	0.03	>= 10K PPM LDAR	
7929003	ALISO CANYON	W/V	1	4/12/2022	4/14/2022	3	0.108	0.32	>= 10K PPM LDAR	
7929010	ALISO CANYON	W/C	1	4/12/2022	4/13/2022	2	0.029	0.06	>= 10K PPM LDAR	
7931038	ALISO CANYON	W/C	1	4/14/2022	4/14/2022	1	0.029	0.03	>= 10K PPM LDAR	
7931039	ALISO CANYON	W/V	1	4/14/2022	4/14/2022	1	0.108	0.11	>= 10K PPM LDAR	
7937672	HONOR RANCHO	W/C	1	4/27/2022	4/27/2022	1	0.029	0.03	>= 10K PPM LDAR	
7937716	HONOR RANCHO	W/C	1	4/27/2022	4/29/2022	3	0.029	0.09	>= 10K PPM LDAR	
7937720	HONOR RANCHO	W/V	1	4/27/2022	4/29/2022	3	0.108	0.32	>= 10K PPM LDAR	
7937724	HONOR RANCHO	W/C	1	4/26/2022	4/29/2022	4	0.029	0.12	>= 10K PPM LDAR	
7939512	HONOR RANCHO	W/C	1	5/2/2022	5/2/2022	1	0.029	0.03	>= 10K PPM LDAR	
7939513	HONOR RANCHO	W/V	1	5/2/2022	5/3/2022	2	0.108	0.22	>= 10K PPM LDAR	
7939514	HONOR RANCHO	W/V	1	5/2/2022	5/3/2022	2	0.108	0.22	>= 10K PPM LDAR	
7939549	HONOR RANCHO	W/C	1	5/2/2022	5/2/2022	1	0.029	0.03	>= 10K PPM LDAR	
7939653	HONOR RANCHO	W/V	1	5/3/2022	5/5/2022	3	0.108	0.32	>= 10K PPM LDAR	
7939661	HONOR RANCHO	W/V	1	5/3/2022	5/5/2022	3	0.108	0.32	>= 10K PPM LDAR	
7939763	HONOR RANCHO	W/V	1	5/2/2022	5/5/2022	4	0.108	0.43	>= 10K PPM LDAR	
7956162	PLAYA DEL REY	W/V	1	5/5/2022	5/9/2022	5	0.108	0.54	>= 10K PPM LDAR	
7956186	HONOR RANCHO	W/V	1	5/2/2022	5/3/2022	2	0.108	0.22	>= 10K PPM LDAR	
7956368	PLAYA DEL REY	W/V	1	5/10/2022	5/11/2022	2	0.108	0.22	>= 10K PPM LDAR	
7956660	ALISO CANYON	W/C	1	5/12/2022	5/12/2022	1	0.029	0.03	>= 10K PPM LDAR	
7956663	ALISO CANYON	W/C	1	5/12/2022	5/12/2022	1	0.029	0.03	>= 10K PPM LDAR	
7956664	ALISO CANYON	W/V	1	5/12/2022	5/12/2022	1	0.108	0.11	>= 10K PPM LDAR	
7956665	ALISO CANYON	W/V	1	5/11/2022	5/11/2022	1	0.108	0.11	>= 10K PPM LDAR	
7956667	ALISO CANYON	W/C	1	5/11/2022	5/11/2022	1	0.029	0.03	>= 10K PPM LDAR	
7956668	ALISO CANYON	W/V	1	5/11/2022	5/11/2022	1	0.108	0.11	>= 10K PPM LDAR	
7956670	ALISO CANYON	W/V	1	5/11/2022	5/11/2022	1	0.108	0.11	>= 10K PPM LDAR	
7956671	ALISO CANYON	W/V	1	5/11/2022	5/11/2022	1	0.108	0.11	>= 10K PPM LDAR	
7956672	ALISO CANYON	W/C	1	5/11/2022	5/11/2022	1	0.029	0.03	>= 10K PPM LDAR	
7956673	ALISO CANYON	W/C	1	5/11/2022	5/11/2022	1	0.029	0.03	>= 10K PPM LDAR	
7957596	ALISO CANYON	W/C	1	5/16/2022	5/16/2022	1	0.029	0.03	>= 10K PPM LDAR	
7957597	ALISO CANYON	W/C	1	5/16/2022	5/16/2022	1	0.029	0.03	>= 10K PPM LDAR	
7957598	ALISO CANYON	W/V	1	5/16/2022	5/17/2022	2	0.108	0.22	>= 10K PPM LDAR	
7957600	ALISO CANYON	W/V	1	5/16/2022	5/17/2022	2	0.108	0.22	>= 10K PPM LDAR	
7958772	ALISO CANYON	W/V	1	5/19/2022	5/19/2022	1	0.108	0.11	>= 10K PPM LDAR	
7963888	GOLETA STATION	W/V	1	5/17/2022	5/17/2022	1	0.108	0.11	>= 10K PPM LDAR	
7965415	HONOR RANCHO	W/C	1	5/31/2022	6/3/2022	4	0.029	0.12	>= 10K PPM LDAR	
8013404	GOLETA STATION	W/C	1	7/11/2022	7/11/2022	1	0.029	0.03	>= 10K PPM LDAR	
8013462	GOLETA STATION	W/V	1	7/11/2022	7/12/2022	2	0.108	0.22	>= 10K PPM LDAR	
8020000	HONOR RANCHO	W/V	1	7/26/2022	7/28/2022	3	0.108	0.32	>= 10K PPM LDAR	
8020045	ALISO CANYON	W/V	1	7/27/2022	7/27/2022	1	0.108	0.11	>= 10K PPM LDAR	
8020047	ALISO CANYON	W/C	1	7/27/2022	7/27/2022	1	0.029	0.03	>= 10K PPM LDAR	
8020215	PLAYA DEL REY	W/C	1	7/26/2022	7/29/2022	4	0.029	0.12	>= 10K PPM LDAR	
8020285	ALISO CANYON	W/C	1	7/28/2022	7/28/2022	1	0.029	0.03	>= 10K PPM LDAR	
8021299	ALISO CANYON	W/V	1	8/3/2022	8/3/2022	1	0.108	0.11	>= 10K PPM LDAR	
8021300	ALISO CANYON	W/C	1	8/3/2022	8/3/2022	1	0.029	0.03	>= 10K PPM LDAR	
8021337	HONOR RANCHO	W/V	1	8/2/2022	8/4/2022	3	0.108	0.32	>= 10K PPM LDAR	
8040197	HONOR RANCHO	W/C	1	8/9/2022	8/9/2022	1	0.029	0.03	>= 10K PPM LDAR	
8042908	HONOR RANCHO	W/C	1	8/21/2022	8/22/2022	2	0.029	0.06	>= 10K PPM LDAR	
8047638	HONOR RANCHO	W/V	1	5/2/2022	5/5/2022	4	0.108	0.43	>= 10K PPM LDAR	
8047643	HONOR RANCHO	W/C	1	5/3/2022	5/3/2022	1	0.029	0.03	>= 10K PPM LDAR	
8047647	HONOR RANCHO	W/V	1	5/3/2022	5/3/2022	1	0.108	0.11	>= 10K PPM LDAR	
8051084	HONOR RANCHO	W/C	1	8/31/2022	8/31/2022	1	0.029	0.03	>= 10K PPM LDAR	
8066555	HONOR RANCHO	W/V	1	8/31/2022	8/31/2022	1	0.108	0.11	>= 10K PPM LDAR	
8069719	ALISO CANYON	W/V	1	9/13/2022	9/13/2022	1	0.108	0.11	>= 10K PPM LDAR	
8069720	ALISO CANYON	W/C	1	9/13/2022	9/13/2022	1	0.029	0.03	>= 10K PPM LDAR	
8069723	ALISO CANYON	W/V	1	9/13/2022	9/13/2022	1	0.108	0.11	>= 10K PPM LDAR	
8076739	PLAYA DEL REY	W/V	1	9/26/2022	9/27/2022	2	0.108	0.22	>= 10K PPM LDAR	
8076755	PLAYA DEL REY	W/V	1	9/26/2022	9/27/2022	2	0.108	0.22	>= 10K PPM LDAR	
8078012	HONOR RANCHO	W/V	1	10/2/2022	10/3/2022	2	0.108	0.22	>= 10K PPM LDAR	
8078294	HONOR RANCHO	W/C	1	10/6/2022	10/7/2022	2	0.029	0.06	>= 10K PPM LDAR	
8078372	GOLETA STATION	W/C	1	10/4/2022	10/6/2022	3	0.029	0.09	>= 10K PPM LDAR	
8078374	GOLETA STATION	W/V	1	10/3/2022	10/4/2022	2	0.108	0.22	>= 10K PPM LDAR	
8078380	GOLETA STATION	W/C	1	10/3/2022	10/3/2022	1	0.029	0.03	>= 10K PPM LDAR	
8092872	HONOR RANCHO	W/C	1	10/12/2022	10/12/2022	1	0.029	0.03	>= 10K PPM LDAR	
8092932	HONOR RANCHO	W/V	1	10/12/2022	10/14/2022	3	0.108	0.32	>= 10K PPM LDAR	
8094125	GOLETA STATION	W/V	1	10/11/2022	10/12/2022	2	0.108	0.22	>= 10K PPM LDAR	
8096075	ALISO CANYON	W/V	1	10/24/2022	10/24/2022	1	0.108	0.11	>= 10K PPM LDAR	
8096076	ALISO CANYON	W/V	1	10/24/2022	10/24/2022	1	0.108	0.11	>= 10K PPM LDAR	
8098694	ALISO CANYON	W/V	1	10/26/2022	10/26/2022	1	0.108	0.11	>= 10K PPM LDAR	













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 Appendix 7; Rev. 03/30/2023

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.  
 At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange

**Underground Storage Blowdowns:**

ID	Geographic Location	Source	Compressor Type	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	Honor Rancho	C	R	1275	851.13	Compressor start ups
N/A	Honor Rancho	W	N/A	92	54.94	Well/Field Blowdowns
N/A	Goleta	W	N/A	66	354.80	Well and Field blowdowns
N/A	Goleta	W	N/A	NA	22.20	Well Casing Relief
N/A	Goleta	C	R	37	14.80	Compressor Blowdowns
N/A	Aliso Canyon	O	N/A	332	595.71	Maintenance Blowdowns
N/A	Aliso Canyon	W	N/A	34	1.78	Well Blowdowns
N/A	Aliso Canyon	W	N/A	NA	0.71	Well Casing Relief
N/A	Playa del Rey	P	N/A	64	9.46	Pipeline Blowdowns
N/A	Playa del Rey	O	N/A	10	8.86	Vessel/Tank Blowdowns
NA	Playa del Rey	W	N/A	NA	0.35	Well Casing Relief
N/A	Aliso Canyon	N/A	N/A	190	5.13	Rotary Meter Inspections - Emission Factor = 27scf/inspection.
N/A	Goleta	N/A	N/A	30	0.81	Rotary Meter Inspections - Emission Factor = 27scf/inspection.
N/A	Honor Rancho	N/A	N/A	56	1.51	Rotary Meter Inspections - Emission Factor = 27scf/inspection.
N/A	Playa del Rey	N/A	N/A	48	1.30	Rotary Meter Inspections - Emission Factor = 27scf/inspection.
N/A	Aliso Canyon	N/A	N/A	156	1.09	Orifice Meter Plate Inspections - Emission Factor = 7scf/inspection.
N/A	Goleta	N/A	N/A	30	0.21	Orifice Meter Plate Inspections - Emission Factor = 7scf/inspection.
N/A	Honor Rancho	N/A	N/A	28	0.20	Orifice Meter Plate Inspections - Emission Factor = 7scf/inspection.
N/A	Playa del Rey	N/A	N/A	115	0.81	Orifice Meter Plate Inspections - Emission Factor = 7scf/inspection.
N/A	Goleta	N/A	N/A	1	0.02	Regulator Annual Inspections - Emission Factor = 20scf/inspection.
N/A	Honor Rancho	N/A	N/A	1	0.02	Regulator Annual Inspections - Emission Factor = 20scf/inspection.
N/A	Playa del Rey	N/A	N/A	28	0.56	Regulator Quarterly Inspections - Emission Factor = 20scf/inspection.
N/A	Aliso Canyon	N/A	N/A	593	11.86	Relief Valve Inspection - Nitrogen Test Gas - Emission Factor = 20scf/inspection.
N/A	Goleta	N/A	N/A	68	1.36	Relief Valve Inspection - Nitrogen Test Gas - Emission Factor = 20scf/inspection.
N/A	Honor Rancho	N/A	N/A	229	4.58	Relief Valve Inspection - Nitrogen Test Gas - Emission Factor = 20scf/inspection.
N/A	Montebello	N/A	N/A	3	0.06	Relief Valve Inspection - Nitrogen Test Gas - Emission Factor = 20scf/inspection.
N/A	Playa del Rey	N/A	N/A	127	2.54	Relief Valve Inspection - Nitrogen Test Gas - Emission Factor = 20scf/inspection.
<b>Sum Total</b>					<b>1,947</b>	



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Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.  
At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange

The emissions captured on this tab represent the emissions associated with the operational design and function of the component. Any intentional release of natural gas for safety or maintenance purposes should be included on the Blowdowns worksheet.

**Underground Storage Component Vented Emissions (See note above):**

ID (number of devices)	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Survey Date (MM/DD/YY)	Number of Days Emitting	Emission Factor, Engineering or Manufacturer's based Estimate of Emissions (Mscf/day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
55	Aliso Canyon	P	I	Misc	N/A	N/A	365	0.0576	1156.32	
2	Aliso Canyon	P	I	Misc	N/A	N/A	125	0.0576	14.40	Converted to air by May 5, 2022
46	Honor Rancho	P	I	Misc	N/A	N/A	365	0.0576	967.10	
1	Playa del Rey	P	I	Misc	N/A	N/A	365	0.0576	21.02	Removed by December 31, 2022
1	Playa del Rey	P	I	Misc	N/A	N/A	243	0.0576	14.00	Removed by August 31, 2022
9	La Goleta	P	I	Misc	N/A	N/A	365	0.0576	189.22	
<b>Sum Total</b>									<b>2,362</b>	

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 Appendix 7: Rev. 05/30/2023

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-is value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

The emissions captured on this tab represent the emissions associated with unintentional leaks that if repaired would not be leaking. If the component is releasing gas or "bleeding" as a result of its design or function then it is not to be captured in this tab.

Underground Storage: Compressor and Component Fugitive Leaks (see note above):

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Pressure (psi)	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	12/31/2022		3/1/2023		Emission Factor or Engineering Estimate (lb/ft <sup>3</sup> /hr)	Emissions (lb/ct)	Explanatory Notes / Comments
								Days	Number of Day-Leaking	Days	Number of Day-Leaking			
790478	PLAYA DEL REY	O	N/A	N/A	N/A	3/1/2022	4/1/2022	85	0.0984	11/15/2022	85	0.0984	8.4	Soap Test / Audio Visual
790491	ALISO CANYON	V	N/A	N/A	N/A	3/23/2022	5/19/2022	2/8/2022	79	0.3562	79	0.3562	28.2	Soap Test / Audio Visual
791153	ALISO CANYON	V	N/A	N/A	N/A	12/1/2022	5/19/2022	8/19/2022	85	0.3562	85	0.3562	30.1	Soap Test / Audio Visual
793937	PLAYA DEL REY	O	N/A	N/A	N/A	5/2/2022	5/6/2022	7/2/2022	49	0.0984	49	0.0984	4.8	Soap Test / Audio Visual
796390	HONOR RANCHO	O	N/A	N/A	N/A	5/2/2022	5/2/2022	4/1/2022	27	0.0984	27	0.0984	2.6	Soap Test / Audio Visual
796451	ALISO CANYON	PR	N/A	N/A	N/A	5/25/2022	5/26/2022	4/1/2022	29	0.9518	29	0.9518	27.6	Soap Test / Audio Visual
796440	PLAYA DEL REY	O	N/A	N/A	N/A	6/2/2022	6/2/2022	4/1/2022	32	0.0984	32	0.0984	3.1	Soap Test / Audio Visual
796546	HONOR RANCHO	O	N/A	N/A	N/A	6/2/2022	6/2/2022	4/1/2022	32	0.0984	32	0.0984	3.1	Soap Test / Audio Visual
7992318	ALISO CANYON	V	N/A	N/A	N/A	6/27/2022	6/27/2022	4/1/2022	45	0.3562	45	0.3562	16.0	Soap Test / Audio Visual
8001150	ALISO CANYON	V	N/A	N/A	N/A	9/1/2022	9/14/2022	8/1/2022	29	0.3562	29	0.3562	10.4	Soap Test / Audio Visual
806645	HONOR RANCHO	V	N/A	N/A	N/A	9/6/2022	9/12/2022	7/1/2022	40	0.3562	40	0.3562	14.4	Soap Test / Audio Visual
806657	ALISO CANYON	O	N/A	N/A	N/A	9/12/2022	10/7/2022	8/1/2022	50	0.0984	49	0.0984	4.9	Soap Test / Audio Visual
809640	PLAYA DEL REY	O	N/A	N/A	N/A	9/13/2022	9/14/2022	7/27/2022	26	0.0984	26	0.0984	2.6	Soap Test / Audio Visual
809652	HONOR RANCHO	O	N/A	N/A	N/A	9/13/2022	9/13/2022	7/1/2022	38	0.0984	37	0.0984	3.7	Soap Test / Audio Visual
809800	ALISO CANYON	O	N/A	N/A	N/A	9/13/2022	9/14/2022	7/1/2022	38	0.0984	37	0.0984	3.2	Soap Test / Audio Visual
809801	ALISO CANYON	O	N/A	N/A	N/A	9/13/2022	9/14/2022	7/25/2022	37	0.0984	36	0.0984	2.7	Soap Test / Audio Visual
807791	PLAYA DEL REY	O	N/A	N/A	N/A	10/1/2022	-	7/1/2022	137	0.0984	137	0.0984	13.5	Soap Test / Audio Visual
809397	HONOR RANCHO	O	N/A	N/A	N/A	10/13/2022	10/14/2022	8/25/2022	27	0.0984	27	0.0984	2.6	Soap Test / Audio Visual
809973	HONOR RANCHO	PR	N/A	N/A	N/A	10/29/2022	10/29/2022	8/15/2022	39	0.9518	39	0.9518	36.6	Soap Test / Audio Visual
8114748	HONOR RANCHO	V	N/A	N/A	N/A	11/7/2022	11/7/2022	7/1/2022	66	0.3562	66	0.3562	23.4	Soap Test / Audio Visual
811597	HONOR RANCHO	O	N/A	N/A	N/A	11/16/2022	11/16/2022	7/1/2022	70	0.0984	69	0.0984	6.9	Soap Test / Audio Visual
8116558	ALISO CANYON	V	N/A	N/A	N/A	11/16/2022	11/16/2022	10/1/2022	60	0.3562	60	0.3562	24.4	Soap Test / Audio Visual
153076	HONOR RANCHO	C	N/A	N/A	N/A	2/28/2022	3/4/2022	8/23/2021	100	0.1342	100	0.1342	13.4	> IOK PPM Leak
159747	HONOR RANCHO	C	N/A	N/A	N/A	8/22/2022	8/22/2022	7/26/2021	15	0.1342	15	0.1342	1.9	> IOK PPM Leak
159765	HONOR RANCHO	PR	N/A	N/A	N/A	11/22/2022	6/3/2022	1/26/2021	65	0.9518	65	0.9518	61.6	> IOK PPM Leak
170679	HONOR RANCHO	V	N/A	N/A	N/A	11/21/2022	-	11/15/2022	44	0.3562	44	0.3562	15.7	> IOK PPM Leak
173621	HONOR RANCHO	V	N/A	N/A	N/A	1/24/2022	1/25/2022	10/13/2021	54	0.3562	54	0.3562	19.1	> IOK PPM Leak
193385	ALISO CANYON	V	N/A	N/A	N/A	1/14/2022	4/27/2022	4/27/2021	71	0.1342	71	0.1342	7.1	> IOK PPM Leak
202260	HONOR RANCHO	C	N/A	N/A	N/A	11/9/2022	11/9/2022	8/31/2022	36	0.1342	36	0.1342	4.8	> IOK PPM Leak
211162	GOLETA STATION	PR	N/A	N/A	N/A	12/13/2022	-	10/13/2021	51	0.9518	51	0.9518	48.5	> IOK PPM Leak
213380	GOLETA STATION	O	N/A	N/A	N/A	12/13/2022	-	8/22/2021	86	0.3562	86	0.3562	30.8	> IOK PPM Leak
220061	GOLETA STATION	O	N/A	N/A	N/A	10/31/2022	10/31/2022	8/1/2022	47	0.0984	46	0.0984	4.6	> IOK PPM Leak
7847906	GOLETA STATION	M	N/A	N/A	N/A	3/6/2022	1/7/2022	10/1/2021	49	0.4639	49	0.4639	22.7	> IOK PPM Leak
7847924	HONOR RANCHO	C	N/A	N/A	N/A	12/18/2022	10/13/2022	8/1/2022	71	0.3562	71	0.3562	25.5	> IOK PPM Leak
785877	PLAYA DEL REY	C	N/A	N/A	N/A	1/25/2022	2/4/2022	11/22/2021	43	0.1342	43	0.1342	5.8	> IOK PPM Leak
785882	HONOR RANCHO	V	N/A	N/A	N/A	1/31/2022	1/31/2022	11/21/2021	47	0.3562	47	0.3562	16.6	> IOK PPM Leak
7858928	PLAYA DEL REY	C	N/A	N/A	N/A	2/2/2022	2/9/2022	11/15/2021	48	0.1342	48	0.1342	6.4	> IOK PPM Leak
7858931	PLAYA DEL REY	C	N/A	N/A	N/A	2/2/2022	2/4/2022	12/1/2021	35	0.3562	35	0.3562	12.3	> IOK PPM Leak
7858933	PLAYA DEL REY	V	N/A	N/A	N/A	2/2/2022	2/4/2022	12/1/2021	35	0.3562	35	0.3562	12.3	> IOK PPM Leak
7878147	ALISO CANYON	C	N/A	N/A	N/A	2/10/2022	-	2/10/2022	47	0.1342	47	0.1342	6.4	> IOK PPM Leak, newly added to LDAR Inventory; assumed leaking since January
7878453	GOLETA STATION	V	N/A	N/A	N/A	2/17/2022	2/17/2022	10/14/2021	64	0.3562	64	0.3562	22.8	> IOK PPM Leak
7888536	ALISO CANYON	V	N/A	N/A	N/A	3/2/2022	3/2/2022	12/9/2021	43	0.3562	43	0.3562	15.5	> IOK PPM Leak
7888640	ALISO CANYON	C	N/A	N/A	N/A	3/2/2022	3/14/2022	12/9/2021	45	0.1342	45	0.1342	5.9	> IOK PPM Leak
788642	HONOR RANCHO	O	N/A	N/A	N/A	2/28/2022	3/4/2022	8/21/2021	100	0.0984	98	0.0984	9.8	> IOK PPM Leak
7903371	GOLETA STATION	V	N/A	N/A	N/A	2/28/2022	2/28/2022	10/12/2021	71	0.3562	71	0.3562	25.5	> IOK PPM Leak
7903407	GOLETA STATION	V	N/A	N/A	N/A	2/28/2022	3/13/2022	1/13/2022	101	0.3562	101	0.3562	36.6	> IOK PPM Leak
7914359	ALISO CANYON	V	N/A	N/A	N/A	4/4/2022	5/4/2022	1/4/2022	77	0.3562	77	0.3562	27.1	> IOK PPM Leak
7914900	ALISO CANYON	C	N/A	N/A	N/A	4/4/2022	5/3/2022	3/2/2022	47	0.1342	47	0.1342	6.4	> IOK PPM Leak
7914503	ALISO CANYON	C	N/A	N/A	N/A	4/5/2022	4/9/2022	1/11/2022	43	0.1342	43	0.1342	5.8	> IOK PPM Leak
7914854	HONOR RANCHO	V	N/A	N/A	N/A	8/9/2021	4/15/2022	5/19/2021	148	0.3562	148	0.3562	52.0	> IOK PPM Leak
7914855	HONOR RANCHO	PR	N/A	N/A	N/A	10/13/2022	10/13/2022	7/29/2021	66	0.9518	66	0.9518	61.6	> IOK PPM Leak
7930954	ALISO CANYON	V	N/A	N/A	N/A	4/13/2022	4/13/2022	2/2/2022	62	0.3562	62	0.3562	22.8	> IOK PPM Leak
7930965	ALISO CANYON	C	N/A	N/A	N/A	4/13/2022	4/14/2022	2/2/2022	37	0.1342	37	0.1342	5.0	> IOK PPM Leak
7930970	ALISO CANYON	C	N/A	N/A	N/A	4/13/2022	4/13/2022	2/2/2022	37	0.1342	37	0.1342	5.0	> IOK PPM Leak
7930972	ALISO CANYON	C	N/A	N/A	N/A	4/13/2022	4/13/2022	2/2/2022	44	0.1342	44	0.1342	5.9	> IOK PPM Leak
7932496	HONOR RANCHO	C	N/A	N/A	N/A	4/18/2022	4/20/2022	10/11/2021	98	0.1342	98	0.1342	13.1	> IOK PPM Leak
7932517	HONOR RANCHO	C	N/A	N/A	N/A	4/18/2022	4/20/2022	10/11/2021	98	0.1342	98	0.1342	13.1	> IOK PPM Leak
7937634	HONOR RANCHO	O	N/A	N/A	N/A	4/26/2022	4/27/2022	3/1/2022	30	0.0984	30	0.0984	3.0	> IOK PPM Leak
7937726	HONOR RANCHO	C	N/A	N/A	N/A	4/20/2022	4/22/2022	2/7/2022	39	0.1342	39	0.1342	5.2	> IOK PPM Leak
7937732	HONOR RANCHO	C	N/A	N/A	N/A	4/20/2022	4/22/2022	2/7/2022	39	0.1342	39	0.1342	5.2	> IOK PPM Leak
7939793	GOLETA STATION	C	N/A	N/A	N/A	5/4/2022	5/5/2022	7/7/2022	31	0.1342	31	0.1342	4.2	> IOK PPM Leak
7939794	PLAYA DEL REY	O	N/A	N/A	N/A	4/28/2022	5/3/2022	1/27/2022	52	0.0984	51	0.0984	5.1	> IOK PPM Leak
7939798	GOLETA STATION	V	N/A	N/A	N/A	5/4/2022	5/4/2022	3/7/2022	31	0.1342	31	0.1342	4.0	> IOK PPM Leak
7939806	GOLETA STATION	V	N/A	N/A	N/A	5/5/2022	5/5/2022	3/7/2022	31	0.3562	30	0.3562	10.9	> IOK PPM Leak
7942127	PLAYA DEL REY	V	N/A	N/A	N/A	5/5/2022	5/6/2022	2/2/2022	48	0.3562	48	0.3562	17.1	> IOK PPM Leak
7956155	PLAYA DEL REY	C	N/A	N/A	N/A	5/11/2022	2/15/2022	2/15/2022	45	0.1342	45	0.1342	5.9	> IOK PPM Leak
7963743	ALISO CANYON	C	N/A	N/A	N/A	5/19/2022	5/20/2022	3/2/2022	41	0.1342	41	0.1342	5.5	> IOK PPM Leak
7963851	ALISO CANYON	O	N/A	N/A	N/A	5/22/2022	5/26/2022	3/2/2022	45	0.0984	44	0.0984	4.4	> IOK PPM Leak
7963853	ALISO CANYON	C	N/A	N/A	N/A	5/24/2022	5/24/2022	3/2/2022	43	0.1342	43	0.1342	5.8	> IOK PPM Leak
7963857	ALISO CANYON	C	N/A	N/A	N/A	5/23/2022	5/24/2022	3/2/2022	43	0.1342	43	0.1342	5.8	> IOK PPM Leak
7963859	ALISO CANYON	C	N/A	N/A	N/A	5/23/2022	5/24/2022	3/2/2022	43	0.1342	43	0.1342	5.8	> IOK PPM Leak
7963898	GOLETA STATION	C	N/A	N/A	N/A	5/18/2022	5/19/2022	3/2/2022	46	0.1342	46	0.1342	6.4	> IOK PPM Leak
7964422	ALISO CANYON	C	N/A	N/A	N/A	5/24/2022	5/25/2022	3/2/2022	44	0.1342	44	0.1342	5.8	> IOK PPM Leak
7982706	ALISO CANYON	V	N/A	N/A	N/A	6/6/2022	6/6/2022	3/9/2022	49	0.3562	49	0.3562	17.3	> IOK PPM Leak
7982709	ALISO CANYON	V	N/A	N/A	N/A	6/6/2022	6/6/2022	3/9/2022	49	0.3562	49	0.3562	17.3	> IOK PPM Leak
7982748	ALISO CANYON	C	N/A	N/A	N/A	6/9/2022	6/9/2022	3/8/2022	49	0.1342	49	0.1342	6.5	> IOK PPM Leak
7982749	ALISO CANYON	C	N/A	N/A	N/A	6/7/2022	6/9/2022	3/8/2022	49	0.1342	49	0.1342	6.5	> IOK PPM Leak
7982813	ALISO CANYON	C	N/A	N/A	N/A	6/9/2022	6/9/2022	3/8/2022	49	0.1342	49	0.1342	6.4	> IOK PPM Leak
7984446	ALISO CANYON	C	N/A	N/A	N/A	6/14/2022	6/27/2022	6/9/2022	17	0.1342	17	0.1342	2.2	> IOK PPM Leak
7986311														







SoCalGas, June 15th, 2023

Rulemaking (R) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.  
 In Response to Data Request, R15-01-008 2023 June Report  
 Appendix 7; Rev. 03/30/2023

Pursuant to SB 1371, Leno - Natural gas leakage abatement, the California Public Utilities Commission (CPUC) requests that the following information be transmitted to the CPUC and the California Air Resources Board (CARB):  
 Note - Definitions in Data Request, R15-01-008 2022 June Report

The following question in the above mentioned data request is answered using the spreadsheets in this Appendix (#7):  
 (6) Calculable or estimated emissions and non-graded gas leaks, as defined in Data Request R15-01-008 2022 June Report.

Notes:  
 Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.  
 At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange

**Underground Storage Dehydrator Vented Emissions:**

ID	Geographic Location	Type of Dehydrator (Glycol or Desiccant)	Vapor Recovery Unit or Thermal Oxidizer (Y/N)	Annual Volume of Gas Withdrawn (Mscf)	Emission Factor (Y/N)	Engineering Estimate (Y/N)	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	Aliso Canyon	Glycol	Y	24,648,553.20	0	N/A	0	Dehy 1/Dehy 2: Flashed gas and regen vapor goes to a thermal oxidizer Dehy 3: Flashed gas and regen vapor recompressed into feed gas to dehy
N/A	Goleta	Glycol	Y	13,012,369.60	0	N/A	0	Flashed gas goes into plant fuel system and regen vapor goes to a thermal oxidizer
N/A	Honor Rancho	Glycol	Y	21,373,402.70	0	N/A	0	Dehy Train A/Dehy Train B: Flashed gas and regen vapor recompressed into feed gas to dehy
N/A	Playa del Rey	Glycol	Y	3,540,632.80	0	N/A	0	Flashed gas and regen vapor recompressed into low pressure processing system for gas distribution
<b>Sum Total</b>							<b>0</b>	

Appendix 7; Rev. 03/30/2023

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
<b>Storage Leaks &amp; Emissions</b>	
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent
<b>Source</b>	W/C = wellhead connector W/V = wellhead valve W/PRV = wellhead pressure relief valve W/OEL = wellhead open-ended line W/F = wellhead flange W/O = wellhead other C = casing P = pipeline O = other
<b>Number of Sources</b>	
<b>Discovery Date</b>	Report Discovery Date if calculating wellhead component emissions using Leaker EFs
<b>Repair Date</b>	Report Discovery Date if calculating wellhead component emissions using Leaker EFs
<b>Number of Days Leaking</b>	Calculate Number of Days Leaking using the formula: Repair Date minus Discovery Date + 1 day
<b>Emission Factor (Mscf/yr)</b>	
<b>Annual Emissions (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	
<b>Compressor Vented Emissions</b>	
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent
<b>Compressor Type</b>	C = centrifugal R = reciprocating
<b>Prime Mover</b>	E = electric motor C = internal combustion engine
<b>Number of Cylinders in Compressor</b>	
<b>Number of Seals</b>	
<b>Seal Type</b>	W = wet D = dry O = other
<b>Measurement Frequency</b>	A - Annual Q - Quarterly M - Monthly W - Weekly D - Daily
<b>Emission Factor: Measurement Date - Pressurized Operations</b>	
<b>Operating Mode: Pressurized Operating (hours)</b>	
<b>Operating Mode: Pressurized Idle (hours)</b>	
<b>Operating Mode: Depressurized Idle (hours)</b>	
<b>Operating Mode: Offline (Hours)</b>	
<b>Emission Factor: Pressurized Operating (scf/hr)</b>	

Emission Factor: Pressurized Idle (scf/hr)	Use these EF columns as well as the columns for the Compressor Measurements noted in Columns R thru AB when they are applicable. If the data is not captured by the operator, then add a note explaining why the applicable measurement data was not recorded or available in the Explanatory Notes / Comments column.
Emission Factor: Depressurized Idle (scf/hr)	
Emission Factor: Pressurized Operating - Rod Packing (scf/hr)	These are new columns for reporting year 2020 of 2019 data. These only apply to operators who during their operations and surveys of compressor stations measure their Compressor Vented Emissions for these components of the compressor. Not all gas operators measure vented emissions and establish flow rates for vented emissions while at the various modes of operation.  The current regulations require an annual
Emission Factor: Pressurized Operating - Blowdown Valve (scf/hr)	
Emission Factor: Pressurized Idle - Rod Packing (scf/hr)	
Emission Factor: Pressurized Idle - Blowdown Valve (scf/hr)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
<b>Blowdowns</b>	
ID	
Geographic Location	GIS, zip code, or equivalent
Source	W = wellhead rework C = compressor P = pipeline O = other
CompressorType	C = centrifugal R = reciprocating
Number of Blowdown Events	
Annual Emissions(Mscf)	
Explanatory Notes / Comments	
<b>Component Vented Emissions</b>	
ID	
Geographic Location	GIS, zip code, or equivalent
Device Type	C = connector OE = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Pressure (psi)	MOP = maximum operating pressure over the past year
Survey Date (MM/DD/YY)	
Number of Days Emitting	Because the emissions are a factor of design or function, these emissions counted for the entire year.



<b>Emission Factor, Engineering or Manufacturer's based Estimate of Emissions (Mscf/day)</b>	Explain in the comment column the basis for your emission estimate.
<b>Annual Emissions (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	
<b>Compressor and Component Fugitive Leaks</b>	
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent
<b>Device Type</b>	C = connector OE = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve O = other devices
<b>Bleed Rate</b>	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
<b>Manufacturer</b>	
<b>Pressure (psi)</b>	MOP = maximum operating pressure over the past year
<b>Discovery Date (MM/DD/YY)</b>	List the actual discovery date.  If the leak was discovered in the year of interest, then we will assume the component was leaking from the beginning of the year for emissions reporting purposes.
<b>Repair Date (MM/DD/YY)</b>	Date that the component repair stopped the leak. Any associated blowdowns as a result of the repair should be included in the blowdowns tab.
<b>Prior Survey Date (MM/DD/YY)</b>	Before the discovery date of the leak, there was a "Prior Survey Date" when the compressor station was tested and no leak was found.  There should be records as to when the compressor station was last surveyed. If the survey spanned two or more days, enter the final date.  Note, a facility level survey date is sufficient to establish the prior survey date.

<p align="center"><b>Number of Days Leaking</b></p>	<p>The algorithm that is used for determining the number of days leaking should conform to the following guidance: For the number days leaking prior to the date of discovery (survey date in the year of interest), calculate the number of days between the Discovery Date and the Prior Survey Date then divided by 2. [Dividing by 2 approximates the average time leaking between the leak discovery and the prior survey date. See below guidance when a leak is discovered in a prior period and repaired in the year of interest.]</p> <p><math>(\text{Discovery Date} - \text{Prior Survey Date})/2</math></p> <p>Calculate the number of days leaking after discovery (survey) date, by subtracting the discovery date from the repair date, unless the leak has not been repaired, where the number of days should be calculated by subtracting the discovery date from December 31 of the year of interest.*</p> <p><math>(\text{Repair Date} - \text{Discovery Date})</math>, unless repair date greater than 12/31/XX then use 12/31/XX</p> <p>---</p> <p><math>\text{Days Leaking} = (\text{Repair Date} - \text{Discovery Date}) + (\text{Discovery Date} - \text{Prior Survey Date})/2 + 1</math></p> <p>* [This requires tracking the leak across different years, because the leak could be minor and conceivably span more than year before getting repaired. Therefore, in the cases where a leak is carried over to a subsequent year, an annual calculation should be made to reflect that the number of days leaking in the prior year have already been reported in the annual emissions inventory. In subsequent years the carried over leaks should reflect a beginning date of January 1 of the year of interest.]</p>
<p><b>Emission Factor or Engineering Estimate (Mscf/day)</b></p>	
<p><b>Emissions (Mscf)</b></p>	
<p><b>Explanatory Notes / Comments</b></p>	
<p><b>Dehydrator Vented Emissions</b></p>	
<p><b>ID</b></p>	
<p><b>Geographic Location</b></p>	<p>GIS, zip code, or equivalent</p>
<p><b>Type of Dehydrator (Glycol or Desiccant)</b></p>	
<p><b>Vapor Recovery Unit OR Thermal Oxidizer (Y/N)</b></p>	<p>In order to claim 0 emissions, a Vapor Recovery Unit OR thermal oxidizer must be used 100% of the time during operation</p>
<p><b>Annual Volume of Gas Withdrawn (Mscf)</b></p>	
<p><b>Emission Factor (Y/N)</b></p>	<p>If the glycol dehydrator has a Vapor Recovery Unit (VRU) or a thermal oxidizer, the emission factor is 0.</p> <p>If using a desiccant dehydrator, the emission factor is <math>2.23E-03</math> mt CH<sub>4</sub>/MMscf</p>
<p><b>Engineering Estimate (Y/N)</b></p>	<p>If using an engineering estimate, please include an attachment of methodology or software used as a separate document. Record the annual emissions</p>
<p><b>Annual Emissions (Mscf)</b></p>	<p>For dehydrators using an emission factor, annual emissions are calculated by multiplying annual volume of gas withdrawn and the emission factor</p> <p>For dehydrators using an engineering estimate, record the annual emissions</p>
<p><b>Explanatory Notes / Comments</b></p>	